

AMENDMENT AND RESPONSE TO OFFICE ACTION

In the Claims

1. (Amended) A method [of modulating] for enhancing or decreasing adhesion of a target cell to a substrate, comprising providing the target cell with an adhesion modulatory peptide-associated substrate such that adhesion of the target cell to the substrate is [modulated] enhanced or decreased as compared to substrate alone, wherein the target cell expresses a receptor selected from the group consisting of $\alpha 4 \beta 1$ integrins and VCAMs, wherein the peptide binds to the receptors.
2. (Amended) The method of claim 1, wherein the adhesion modulatory peptide comprises a peptide which specifically [enhances] stimulates adhesion of the target cell.
7. (Amended) The method of claim 4, wherein the adhesion modulatory peptide is a [neotrophil] neutrophil adhesion modulatory peptide or a myofibroblast adhesion modulatory peptide.
8. (Amended) The method of claim 1, wherein the adhesion modulatory peptide comprises an amino acid residue sequence selected from the group consisting of SDQDNNGKGSHEs (SEQ ID NO:1), SDQDQDGDGHQDS (SEQ ID NO:2), GRGDNPS (SEQ ID NO:3), TPVVPTVDTYDGRGDSLAY (SEQ ID NO:4), TPVVPTVDTYDGRGD (SEQ ID NO:5), HDRKEFAKFEEERARA [(SEQ ID NO:10)] (SEQ ID NO:9), DPGYIGSR (SEQ ID NO:10), KGMNYTVR (SEQ ID NO:13), and VLEP (SEQ ID NO:15).
9. (Amended) The method of claim 1, wherein the adhesion modulatory peptide comprises an amino acid residue sequence selected from the group consisting of DDRKKGFC